exposed to aisle **106**. Display/keyboard rail system **140** could use any type of mechanism to permit the display **120** and the keyboard housing **130** to translate in and out of a slot in an industrial PC rack. A simple drawer or slider mechanism or more elaborate systems could be employed depending upon the particular needs for any particular implementation. Keyboard housing **130** is shown as a cover over keyboard **230**; however, this is not a necessary feature of keyboard housing **130**. Keyboard housing **130** could be a simple drawer or slider mechanism similar to display/keyboard rail system **140** or it could be a shielding dust cover to protect the keyboard **230** from dust and any falling debris. The interface between display trailing edge **124** and keyboard housing leading edge **132** of keyboard housing **130** can be any structure suitable for carrying out variable positioning of display **120**. A hinge, such as a piano hinge, side hinges or any type of device to facilitate variable pivoting of display **120** with respect to keyboard housing **130** could be used. Keyboard **230** can be any alphanumeric type of keyboard, numeric keypad or data entry device such as a touch pad, track ball, or other cursor controller.

A more detailed understanding of the present invention can be achieved by now referring to FIG. **3**, which shows the 1 U-sized display/keyboard unit **116** of FIG. **2** in a partially deployed arrangement. Display **120** has moved outwardly past display/keyboard rail system front end **142**, so that it would extend into aisle **106** if 1 U-sized display/keyboard unit **16** were disposed in first rack of industrial personal computers **102**. Display **120** is shown deployed in a position for use. Display **120** has been pivoted from a horizontal position as it is when stowed in FIG. **2**, past a vertical position where display leading edge **122** is directly above display trailing edge **124**. This tilting of display **120** backwards or upward beyond a vertical arrangement facilitates viewing by a technician whose eyes are above a midpoint between display leading edge **122** and display trailing edge **124** when display **120** is in a vertical arrangement. When the technician's eyes are at the exact same level as such a midpoint, then a vertical arrangement of display **120** may be preferred. When the technician's eyes are below this level, then the display **120** can be pivoted a shorter angular distance so that it is directed downward. When the display **120** is either vertical or directed downward, the display **120** can be retracted back into display/keyboard rail system **140** to limit the amount of encroachment into the aisle **106**.

An even more detailed understanding of the present invention may be achieved by now referring to FIG. **4**, which shows the 1 U-sized display/keyboard unit **116** of the present invention in a fully deployed arrangement. Keyboard **230** is shown extending outward so that keyboard trailing edge **234** approaches keyboard housing leading edge **132**. When keyboard **230** is not needed, it can be stowed by pushing the keyboard leading edge **232** back toward the keyboard housing leading edge **132**.

Of course, variations of the pivoting of display **120** could be done as well. For example, display **120** could be made to pivot downward, and the viewing surface of display **120** would be on the opposite side from that shown in FIGS. **3** and **4**.

In operation, the apparatus and method of the present invention as described in FIGS. **1–4**, could function as follows:

The 1 U-sized display/keyboard unit **116** is disposed in a 1 U sized slot in first rack of industrial personal computers **102** similar to that which houses 1 U-sized industrial computing component **114**. Display/keyboard rail system rear end **144** is disposed internal to first rack of industrial personal computers **102**. Display/keyboard rail system front end **142** is adjacent to the aisle **106**. When a technician desires to use the display **120**, the display **120** can be pulled into the aisle **106**. Display **120** can be pivoted about display trailing edge **124**, so that display leading edge **122** moves upward. If the technician is viewing from below, the amount of pivoting is limited and the display leading edge **122** never is disposed vertical of display trailing edge **124**. If the technician is viewing from above, then display leading edge **122** can be moved past a vertical alignment with display trailing edge **124**, so that display **120** is directed upward. In such cases, display **120** will need to be pulled further into the aisle **106** to create space between the backwardly tilted display **120** and the face plates of large industrial computing component **112** or other components disposed above 1 U-sized display/keyboard unit **116**. If a keyboard or portions of a keyboard are needed, it can be pulled further into aisle **106**.

Throughout this description, reference is made to an industrial PC because it is believed that the beneficial aspects of the present invention would be most readily apparent when used in connection with industrial; however, it should be understood that the present invention is not intended to be limited to industrial PCs and should be hereby construed to include other non-industrial PCs as well.

It is thought that the method and apparatus of the present invention will be understood from the foregoing description and that it will be apparent that various changes may be made in the form, construct steps, and arrangement of the parts and steps thereof, without departing from the spirit and scope of the invention or sacrificing all of their material advantages. The form herein described is merely a preferred exemplary embodiment thereof.

What is claimed is:

1. An industrial computer system;

a first rack of industrial personal computers;

a second rack of industrial personal computers;

an aisle disposed between said first rack of industrial personal computers and said second rack of industrial personal computers;

a 1 U-sized display/keyboard unit including a display for viewing information and a keyboard for data entry; the 1 U-sized display/keyboard unit being disposed in said first rack of industrial personal computers;

said 1 U-sized display/keyboard unit adapted and configured so that said display and said keyboard, when stowed, are arranged in a linear fashion with said display being disposed in a front portion of said first rack of industrial personal computers and adjacent to said aisle and said keyboard being rearward in said first rack of industrial personal computers;

said display and said keyboard being adapted and configured for unified translational motion in and out of said first rack of industrial personal computers,

said display being adapted and configured for pivotal motion with respect to said keyboard; and,

said keyboard being adapted and configured for independent translational motion with respect to said display.

2. A system of claim **1** wherein a first drawer slide mechanism is used to facilitate said independent translational motion.

3. A system of claim **2** wherein a second drawer slide mechanism is used to facilitate said unified translational motion.